

Paediatrics Evidence Update December 2021

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If you have any further enquiries please do not hesitate to get in touch.

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The Clinical Librarian team endeavours to find as much of the latest evidence in your clinical area as possible, however make no claim as to the exhaustive nature of the update.

For more specific areas of interest within Paediatrics we would recommend a literature search or KnowledgeShare bulletin.

BMJ Best Practice

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Contents (click title to view)

NICE Guidance	Other Guidance
Cochrane Systematic Reviews	Systematic reviews from other sources
Cochrane clinical answers	Primary Research
BMJ Best Practice	Paediatric health in the News
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Most recent guidance published:

[COVID-19 rapid guideline: managing COVID-19 \[NG191\]](#)

Other Guidance/Reports

[Liraglutide for managing obesity in people aged 12 to 17 years \(terminated appraisal\) \[TA749\]](#)

[Headaches in over 12s: diagnosis and management \[CG150\]](#)



Cochrane
Library

Systematic Reviews and Research Protocols

[Antibiotics for treatment of sore throat in children and adults](#)

[Mindfulness-based psychological interventions for improving mental well-being in medical students and junior doctors](#)

[Parenteral versus enteral fluid therapy for children hospitalised with bronchiolitis](#)

[Peer support interventions for parents and carers of children with complex needs](#)

Systematic reviews from other sources

Aminoglycoside- and glycopeptide-induced ototoxicity in children: a systematic review.

Association between auditory system pathology and sudden infant death syndrome (SIDS): a systematic review.

Association of obesity with mortality and clinical outcomes in children and adolescents with transplantation: A systematic review and meta-analysis.

Auxiliary liver transplantation for management of acute liver failure in children - Systematic review.

beta3-Adrenoceptor Agonist for the Treatment of Bladder Dysfunction in Children: A Systematic Review and Meta-Analysis.

Blunt Traumatic Diaphragmatic Hernia in Children: A Systematic Review.

The built and social neighborhood environment and child obesity: A systematic review of longitudinal studies.

Cardiac manifestations, treatment characteristics, and outcomes of paediatric inflammatory multisystem syndrome temporally associated with severe acute respiratory syndrome coronavirus-2: A systematic review.

Combined effects of levetiracetam and sodium valproate on paediatric patients with epilepsy: a systematic review and meta-analysis.

Continuous positive airway pressure for children in resource-limited settings, effect on mortality and adverse events: systematic review and meta-analysis.

Current Status of Ureteric Stents on Extraction Strings and Other Non-cystoscopic Removal Methods in the Paediatric Setting: A Systematic Review on Behalf of the European Association of Urology (EAU) Young Academic Urology (YAU) Urolithiasis Group.

Does exposure to greenness improve children's neuropsychological development and mental health? A Navigation Guide systematic review of observational evidence for associations.

Effect of energy- and/or protein-dense enteral feeding on postoperative outcomes of infant surgical patients with congenital cardiac disease: A systematic review and meta-analysis.

The effectiveness and safety of paediatric prehospital pain management: a systematic review.

Efficacy and safety of medical cannabinoids in children: a systematic review and meta-analysis.

Equine-assisted activities and therapies in children with attention-deficit/hyperactivity disorder: A systematic review.

Experiences and needs of children with siblings diagnosed with Type 1 diabetes: A mixed studies systematic review.

Geographic barriers to children's surgical care: A systematic review of existing evidence.

The impact of digital health interventions on the psychological outcomes of patients and families receiving paediatric palliative care: A systematic review and narrative synthesis.

The impact of hypoglycemia on quality of life and related outcomes in children and adolescents with type 1 diabetes: A systematic review.

Impact of meconium consistency on infant resuscitation and respiratory outcomes: a retrospective-cohort study and systematic review.

Immunogenicity and safety of routine vaccines in children and adolescents with rheumatic diseases on immunosuppressive treatment - a systematic review.

The influence of experimental confederate peers on children's food intake: A systematic review and meta-analysis.

Intranasal midazolam versus intravenous/rectal benzodiazepines for acute seizure control in children: A systematic review and meta-analysis.

Is heart rate variability biofeedback useful in children and adolescents? A systematic review.

Management of idiopathic sleep bruxism in children and adolescents: A systematic review of the literature.

Nerve Graft and Nerve Transfer for Improving Elbow Flexion in Children with Obstetric Palsy. A Systematic Review.

Non-Invasive Ventilation Strategies in Children With Acute Lower Respiratory Infection: A Systematic Review and Bayesian Network Meta-Analysis.

Obstructive sleep apnea in children and adolescents with cystic fibrosis and preserved lung function or mild impairment: a systematic review and meta-analysis of prevalence.

Outpatient urine collection methods for paediatric urinary tract infections: Systematic review of diagnostic accuracy studies.

Paediatric Hypertension in Africa: A Systematic Review and Meta-Analysis.

Pain assessment tools in paediatric palliative care: A systematic review of psychometric properties and recommendations for clinical practice.

Post-operative anorectal manometry in children with Hirschsprung disease: A systematic review.

Prevalence of paediatric hyperinflammatory conditions in paediatric and adolescent hospitalized COVID-19 patients: a systematic review and meta-analysis.

Pulmonary function in children and adolescents with untreated idiopathic scoliosis: a systematic review with meta-regression analysis.

Quality metrics for emergency abdominal surgery in children: a systematic review.

Respiratory Syncytial Virus-Associated Neurologic Complications in Children: A Systematic Review and Aggregated Case Series.

Safety of topical administration of nasal decongestants and vasoconstrictors in paediatric nasal surgery - A systematic review.

Screen Time and Bone Status in Children and Adolescents: A Systematic Review.

Severity and prevalence of burnout syndrome in paediatric intensive care nurses: A systematic review.

A systematic review of invasive pneumococcal disease vaccine failures and breakthrough with higher-valency pneumococcal conjugate vaccines in children.

A systematic review of the impact of intensive care admissions on post discharge cognition in children.

Testis-sparing surgery in children with testicular tumors: A systematic review and meta-analysis.

Therapeutic effect of acupuncture combined montelukast sodium on cough variant asthma in children: A protocol for systematic review and meta-analysis.

Tissue Doppler echocardiography in children with OSA before and after tonsillectomy and adenoidectomy: A systematic review and meta-analysis.

Underestimation of overweight weight status in children and adolescents aged 0-19 years: A systematic review and meta-analysis.

Ultrasound for the diagnosis of malrotation and volvulus in children and adolescents: a systematic review and meta-analysis.

Wearable Lower-Limb Exoskeleton for Children with Cerebral Palsy: A Systematic Review of Mechanical Design, Actuation Type, Control Strategy, and Clinical Evaluation.



This month's clinical questions are...

Can prophylactic nasal continuous positive airway pressure help to prevent morbidity and mortality in very preterm infants?

For infants with pyloric stenosis, how does open pyloromyotomy compare with laparoscopic pyloromyotomy?

For preterm infants with evolving or established bronchopulmonary dysplasia, what are the effects of systemic corticosteroids administered within eight days after birth?

What is the accuracy of the World Health Organization (WHO) four-symptom screen for active pulmonary tuberculosis (TB) in children with HIV?

Primary Research

Health technology assessment of paediatric medicines: European landscape, challenges and opportunities inside the conect4children project.

Incidence and nature of adverse drug events in paediatric intensive care units: A prospective multicentre study

Informed consent and assent guide for paediatric clinical trials in Europe.

Is early activity resumption after paediatric concussion safe and does it reduce symptom burden at 2 weeks post injury? The Pediatric Concussion Assessment of Rest and Exertion (PedCARE) multicentre randomised clinical trial

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Lacticaseibacillus rhamnosus GG DSM 33156 effects on pathogen defence in the upper respiratory tract: a randomised, double-blind, placebo-controlled paediatric trial

Metamizole Use in Children: Analysis of Drug Utilisation and Adverse Drug Reactions at a German University Hospital between 2015 and 2020.

Objective confirmation of asthma diagnosis, treatment adherence and patient outcomes in children and adolescents.

Pharmacogenomic testing in paediatrics: clinical implementation strategies.

Real-World Anticoagulant Use and Incidence of Venous Thromboembolism and Major Bleeding in Children.

Safety and efficacy of teriflunomide in paediatric multiple sclerosis (TERIKIDS): a multicentre, double-blind, phase 3, randomised, placebo-controlled trial



Athens is required for off-site access to BMJ Best Practice

Topic: [Amblyopia](#)

Topic: [Hirschsprung's disease](#)

Topic: [Type 1 diabetes](#)

Topic: [Type 1 neurofibromatosis](#)

Paediatrics in the News

<https://www.england.nhs.uk/news/>

[New treatment to reduce effects of peanut allergy to benefit thousands of children](#)

Online Resources

[BestBETs](#) - BETs bring the evidence one step closer to the bedside, by providing answers to very specific clinical problems, using the best available evidence.

[British National Formulary \(BNCF\) for Children](#)

[Children and Young People – Government Policy](#)

[The Royal Marsden Manual of Clinical Procedures](#) – available via your Athens login

Journals & table of contents alerts

The Clinical Librarian team can help set up table of content alerts to the journal of your choice.

[Archives of Disease in Childhood](#)

[Paediatrics and Child Health](#)

[BMC Pediatrics](#)

[Nursing Children and Young People](#)

[Pediatric Nursing](#)

[Pediatrics](#)

National Institute for Health Research (NIHR)



**National Institute for
Health Research**

[Continuous monitoring of sugar levels in premature infants is better than standard care](#)

[Vaccinating teenagers reduces the spread of flu, model shows](#)



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[Bamlanivimab-etesevimab for COVID-19 in children younger than 12 years](#)

[Gene therapy for thalassemia](#)

[Vaccination against human papillomavirus, especially at an early age, is associated with greater reductions in cervical cancer](#)

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